

**MARKED UP VERSION**

-14-

genomic DNA was similarly performed, using 200 ng of genomic DNA instead of first strand cDNA.

**VI. Comparison of expression levels by semi-quantitative RT-PCR**

To compare the expression of individual genes, RT-PCR was performed using 5 primer pairs designed based on the sequence of the cDNA clones that was included on the GeneFilter. The PCR was done from 25 to 40 cycles with increments of 5-cycles, except for  $\beta_2$ -microglobulin, which was done at 18, 22, 25, and 30 cycles. The PCR reaction products were analyzed on a 3% agarose gel stained with ethidium bromide, and the amount of DNA was quantitated as band intensities using GelDoc software 10 from BioRAD (Hercules, CA). The level of expression of each gene was normalized against the level of  $\beta_2$ -microglobulin expression between these two species. The relative expression between human and baboon cDNA was estimated by measuring the ratio of intensity of DNA product, comparing only those measurements which fell within the linear range of PCR amplification cycles; multiple determinations, when 15 performed, were averaged. The sequences of Forward (F) and Reverse (R) primers are: Transmembrane 4 superfamily member 4 (TM4SF4), F-  
AAGCGATTGCGATGTTCACCTC --(SEQ ID NO: 1)--, R-  
GAGGCTCTCGGCAC TTGTTCC --(SEQ ID NO: 2)--; Protein tyrosine kinase 9  
(PTK9), F-GATTCTTGTGTTACCCCTGTTGGAG --(SEQ ID NO: 3)--, R-  
20 TTGCTGC ATACAACATTGGAC --(SEQ ID NO: 4)--; Cytochrome P450,  
subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile)  
(CYP1B1), F-GTAATGGTGTCCCAGTATAA GTAATGAG-3'--(SEQ ID NO: 5)--,  
R-TCATGAATGCTTGTGCTG-3'--(SEQ ID NO: 6)--; Colony stimulating  
factor 3 receptor (granulocyte) (CSF3R), F-CTGAAGTTATAGGAAACAAAGC  
25 ACAAAAGGC --(SEQ ID NO: 7)--, R- GCCC ATGACTAAAAACTACCCAGC -  
-(SEQ ID NO: 8)--; Beta-2-microglobulin (B2M), F- CCTGAATTGCTA  
TGTGTCTGGG --(SEQ ID NO: 9)--, R- TGATGCTGCTTACATGTCTCGA --  
(SEQ ID NO: 10)--.  
R82595, F : GCTCGTAGAACATTTCGTAATAGCC --(SEQ ID NO: 11)--, R :  
30 GGACCCATCGTGGTT ACCGTG --(SEQ ID NO: 12)--; AA676327, F-  
ATATTCGGTAAC TTTGACCCTAAG --(SEQ ID NO: 13)--, R: CAGGGGCAA  
TTTGAGGTATG --(SEQ ID NO: 14)--; R85439, F:

**MARKED UP VERSION**

-15-

GGCAGGGCTCTAAATGGAAGTAGTTG --(SEQ ID NO: 15)--, R: CTCAG  
AAGTGTGTTGTAGCAAGGCTGC --(SEQ ID NO: 16)--, AA487912, F:  
AACAGTGACTTATCCCGCTAC CC --(SEQ ID NO: 17)--, R:  
GGGTGGGTTACTCTAGAATCGC --(SEQ ID NO: 18)--; N25920, F:  
5 CAGATGGAGGGTTATG AGTGAGGCTGG --(SEQ ID NO: 19)--, R:  
GCTTGTCTTGAGGATTGTGGTGC --(SEQ ID NO: 20)--; R05886, F: TAGGCG  
TGAGAAGCATATAGAGGC --(SEQ ID NO: 21)--, R: AGTGAATAAGCAAGAAATCAGGGTG  
--(SEQ ID NO: 22)--; N74363, F: ACAAAAGGGCTGTTACTGAGAGACCTGAGC  
--(SEQ ID NO: 23)--, R: GGCATAACTCACACCCATT TGTTTACCTGC --(SEQ  
10 ID NO: 24)--; N55359, F: GGCAGAATCTACTGGGCATCTGTAATC --(SEQ ID  
NO: 25)--,  
R: AGTTTGGTGGTCCAGGGAAGGTAC --(SEQ ID NO: 26)--.